

## ABSTRACT OF THE DISCLOSURE

A torque controller of an internal combustion engine provides smooth variations of target engine shaft torque in response to parameter inputs. The torque controller performs: a target engine output power operating process in which target engine output power is determined from a one-dimensional table based on the accelerator opening; a target engine output torque operating process in which target engine output torque is calculated in response to this target engine output power, by using a predetermined formula based on the number of engine revolutions; and a target engine shaft torque operating process in which an engine torque loss is subtracted from the target engine output torque to calculate the target engine shaft torque. This permits smooth variations of the target engine output torque and target engine shaft torque calculated by the formulae for improved torque control.